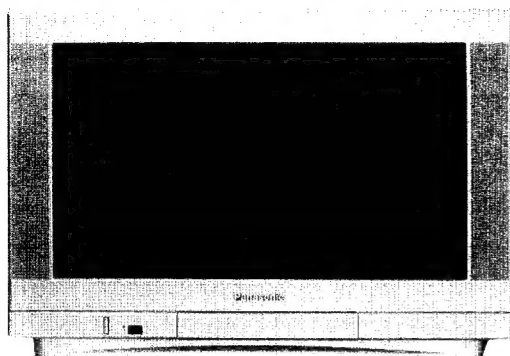


# Service Manual



## Colour Television

## TX-24DX1

## EURO-4 Chassis

### SPECIFICATIONS

**Power Source:** 220-240V a.c., 50Hz

**Power Consumption:** 77W

**Stand-by Power Consumption:** 1,4W

**Aerial Impedance:** 75Ω unbalanced, Coaxial Type

**Receiving System:** PAL I, PAL-525/60  
M.NTSC  
NTSC (AV only)

**Receiving Channels:** UHF E21-E69

**Intermediate Frequency:**

**Video/Audio**

Video 39,5MHz  
Audio 33,5MHz  
32,95MHz (NICAM)  
Colour 35,07MHz

**Terminals:**

Audio Monitor Out Audio (RCAx2) 500mV 1kΩ  
AV1 IN Video (21 pin) 1V p-p 75Ω  
Audio (21 pin) 500mV rms 10kΩ  
RGB (21 pin)

AV1 OUT Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms 1kΩ

AV2 IN Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms 10kΩ

S-Video IN Y: 1V p-p 75Ω

(21-pin) C: 0,3V p-p 75Ω

AV2 OUT

Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms 1kΩ

AV3 IN

S-Video IN Y: 1V p-p 75Ω

(4-pin) C: 0,3V p-p 75Ω

Audio (RCAx2) 500mV rms 10kΩ

Video (RCAx1) 1V p-p 75Ω

**High Voltage:**

28,2kV ± 1kV

**Picture Tube:**

W56ESF002X03 56cm

**Audio Output:**  
(Music Power)

Front Left/Right 2 x 15W  
8Ω Impedance

**Headphones:**

8Ω Impedance  
3,5mm

**Accessories supplied :**

Remote Control  
2 x R6 (UM3) Batteries  
TV Stand TS-2800 or TS-2800S

**Dimensions:**

Height: 432mm

Width: 620mm

Depth: 455mm

**Net weight:**

26kg

Specifications are subject to change without notice.  
Weights and dimensions shown are approximate.

**NOTE:** This Service Manual should be used in conjunction with the EURO-4 Technical guide.

# CONTENTS

SAFETY PRECAUTIONS.....	2
SERVICE HINTS.....	3
SERVICE POSITION.....	4
ADJUSTMENT PROCEDURE AND FACTORY SETTINGS.....	5
WAVEFORM PATTERN TABLE.....	6
ALIGNMENT SETTINGS.....	7
BLOCK DIAGRAMS.....	8
PARTS LOCATION.....	12
REPLACEMENT PARTS LIST.....	13
SCHEMATIC DIAGRAMS.....	22
CONDUCTOR VIEWS.....	27

## SAFETY PRECAUTIONS

### GENERAL GUIDE LINES

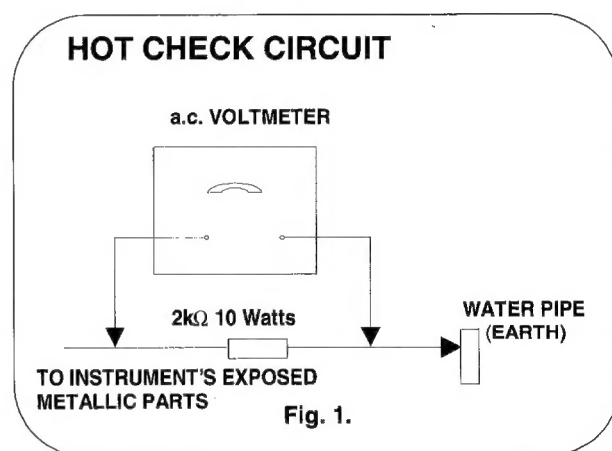
1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 29,2kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

### LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aeriads, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

### LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k $\Omega$  10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.



4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

### X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 29,2kV without causing X-Radiation.

**NOTE:** It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 28,2kV  $\pm$  1kV.  
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

## SERVICE HINTS

### How to remove the rear cover

1. Remove the 9 screws as shown in Fig.2.

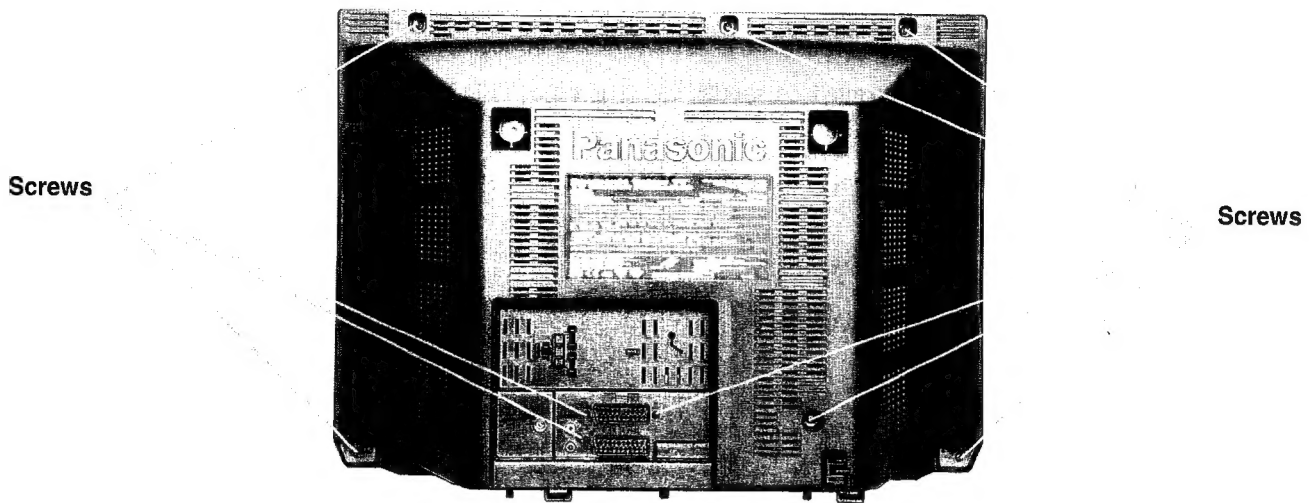


Fig.2.

## LOCATION OF CONTROLS

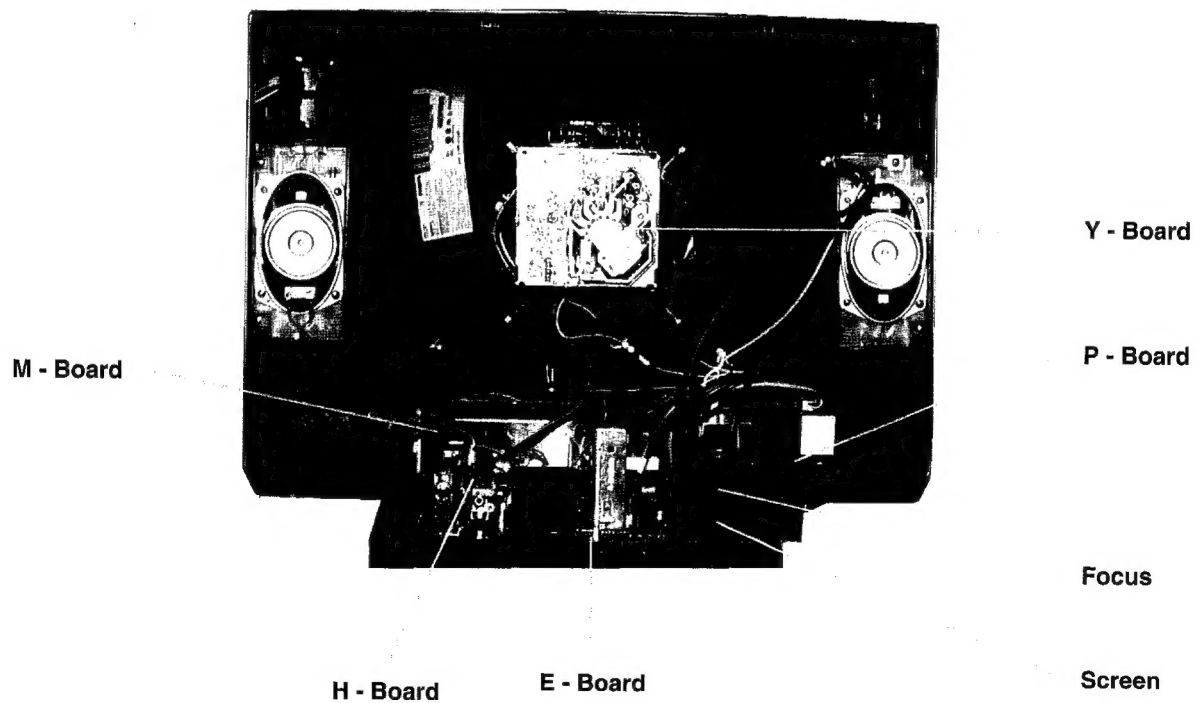
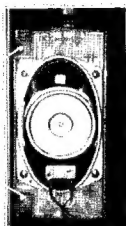


Fig.3.

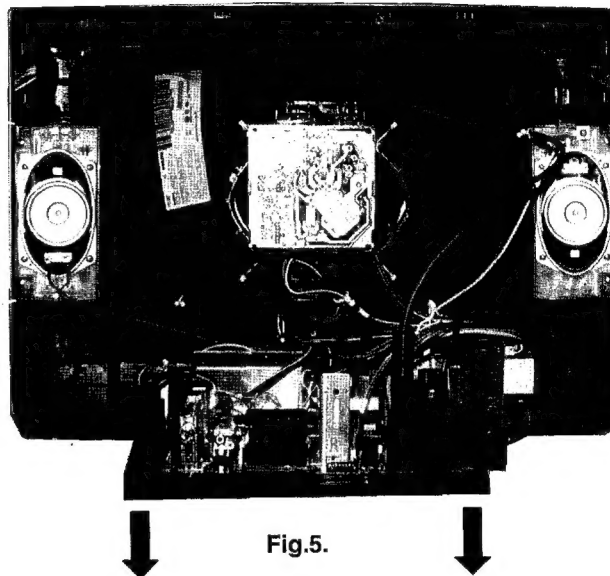
## HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws **(A)**, as shown in **Fig.4.**, and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.5.**
3. Release the respective wiring clips and rotate the chassis vertically through 90° clockwise.
4. Locate the base of the chassis frame into location **(B)**, shown in **Fig.6. / Fig.8.**
5. Screw the chassis frame onto the cabinet, shown in **Fig.6. / Fig.7.**
6. After servicing replace the bead clumper and speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

**(A)**



**Fig.4.**



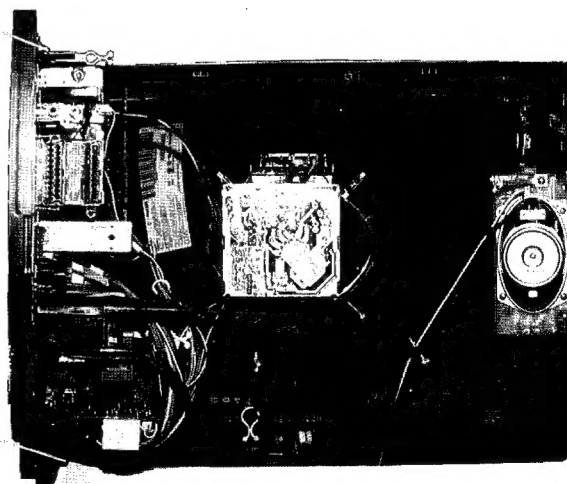
**Fig.5.**



**Fig.7.**



**Fig.8.**




**(B)**

**Fig.6.**

## ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments
<b>+B SET-UP</b> 1. Receive a Greyscale signal. 2. Set the controls :-  Brightness      Minimum  Contrast          Minimum  Volume            Minimum	1. Set the +B voltage up as follows:- Adjust <b>R811</b> so that <b>B2</b> shows $148V \pm 1V$ . 2. Confirm the following voltages. <b>B9</b> 5 $\pm 0.25V$ <b>B10</b> 5 $\pm 0.25V$ <b>B5</b> 12 $\pm 0.5V$ <b>B11</b> 33 $\pm 1.5V$ <b>B4</b> 16 $\pm 1V$ <b>B7</b> 8 $\pm 0.5V$ <b>B12</b> 26 $\pm 1V$ <b>B8</b> 5.5 $\pm 0.5V$ <b>B3</b> 35 $\pm 1V$ <b>B13</b> 15 $\pm 1V$ <b>B1</b> 200 $\pm 10V$ <b>B14</b> -15 $\pm 1V$
<b>CUT OFF / Ug2 Test</b> 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press " <b>STR</b> " and adjust "cutoff" value using the " <b>Yellow</b> " and " <b>Blue</b> " buttons until the black level is $160V \pm 5V$ press " <b>STR</b> " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

## FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (**-/V**) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button  on the remote control. To exit Self Check, switch off the TV set at the power button.

**NOTE:** Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	--		
OPTION 1	00		
OPTION 2	81		
OPTION 3	02		
OPTION 4	00		
OPTION 5	B1		
OPTION 6	E9		

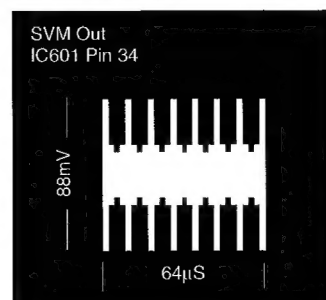
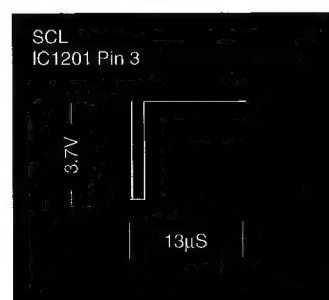
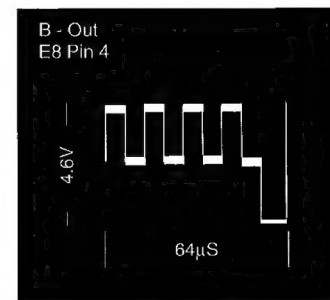
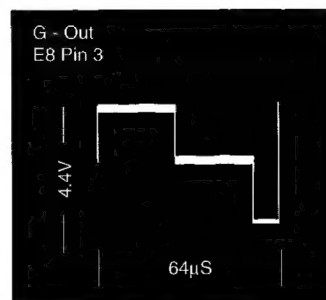
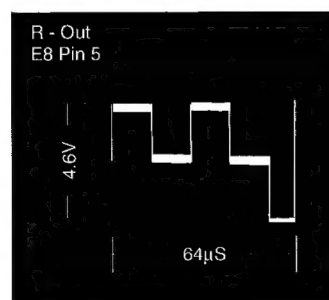
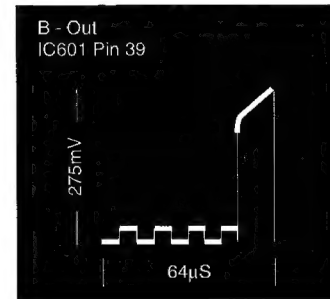
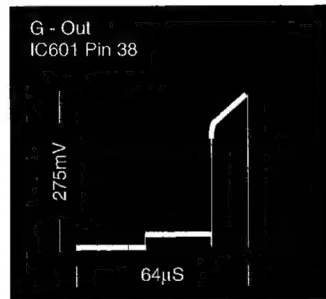
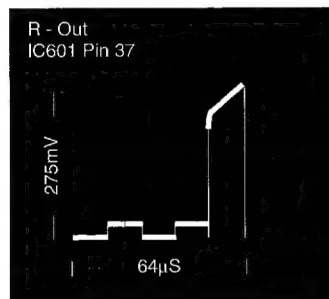
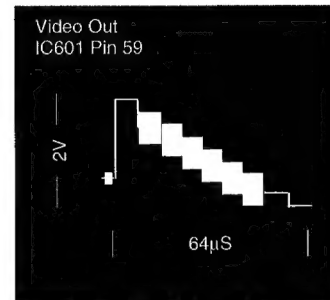
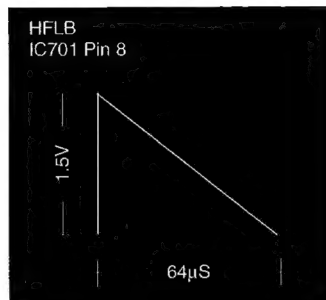
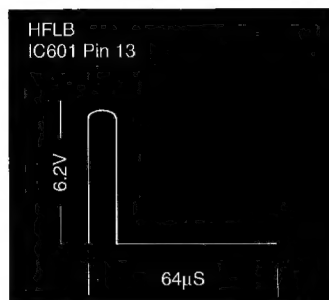
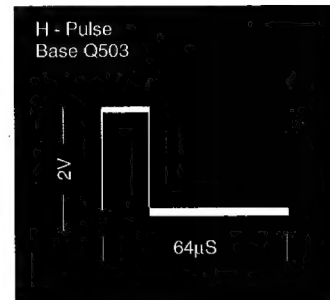
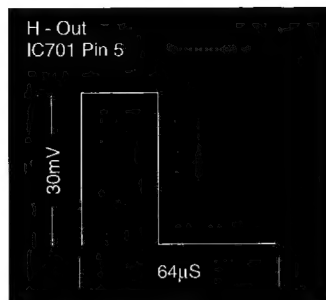
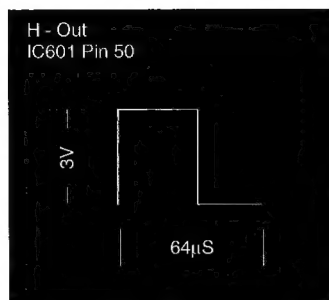
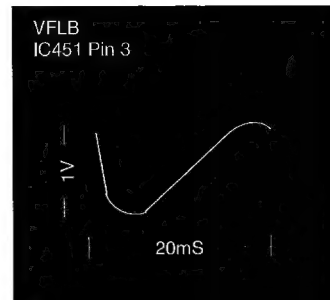
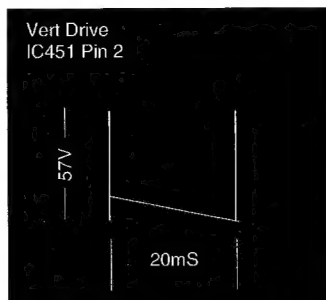
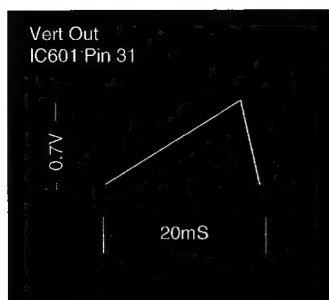
If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

### Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

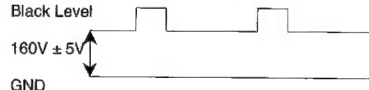
- **LUCI** interface kit (**Linked Utility Computer Interface**)  
 Part number: TZS6EZ002  
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (**Visual Interactive Computer Information**)  
 These C.D.'s contain multimedia documentation providing quick access to service information.  
 Part No. TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
  1. Service Manuals
  2. Instruction Books
  3. Technical Information
- **TASMIN** (**Technically Advanced System for Multimedia Interactive Notes**)  
 As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

## WAVEFORM PATTERN TABLE



# ALIGNMENT SETTINGS

(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press " <b>Blue</b> " button, wait until the colours are changing slowly and press " <b>STR</b> ".
Cut-off DC	Cut-off 0171	<p>To adjust Cutoff connect an oscilloscope to the blue cathode. Press "<b>STR</b>" and adjust "cutoff" value using the "<b>Yellow</b>" and "<b>Blue</b>" buttons until the black level is <math>160V \pm 5V</math> press "<b>STR</b>" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."</p> 
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

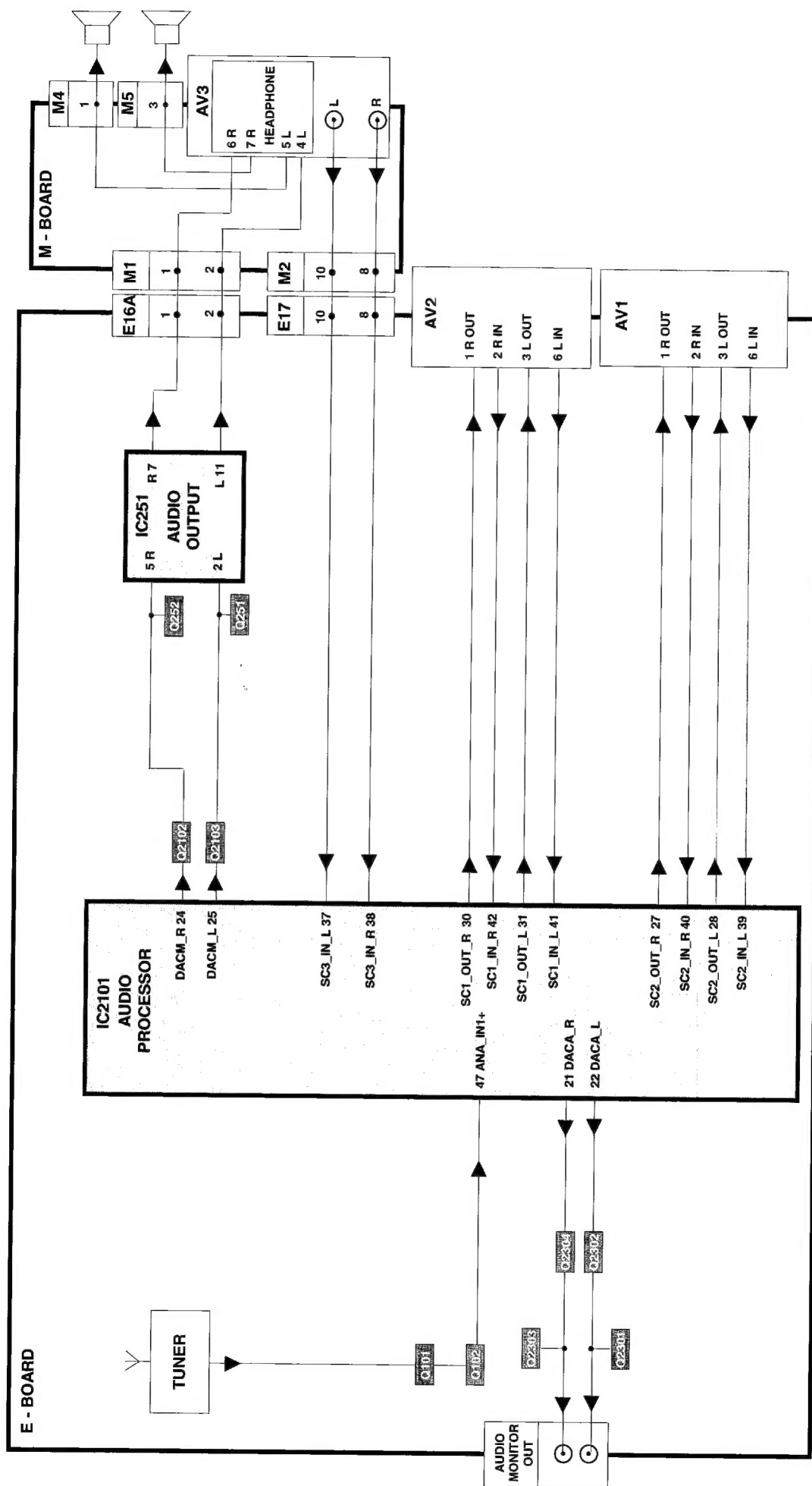
The diagram illustrates the internal circuitry of a television, organized into several functional boards:

- E-BOARD:** Contains the **TUNER** and **IC601 VIDEO PROCESSOR**. The tuner receives signals from AV1 and AV2. IC601 has multiple video inputs (VIN 4, 64, 61 V IN 1, 43 B IN, 42 G IN, 41 R IN, 62 VIN 2, 63 VIN 3, 60 C IN) and outputs (SVM OUT 34, B OUT 39, G OUT 38, R OUT 37, B IN 47, G IN 46, R IN 45, VIDEO OUT 59). It is connected to the Y-board and M-board.
- Y-BOARD:** Contains **VM COILS** and **IC351 RGB OUTPUT**. IC351 receives signals from the E-board and outputs to the CRT. It also includes a **Y2** component.
- M-BOARD:** Contains **IC3401 VIDEO SWITCHING** and **IC1101 MICRO PROCESSOR**. The micro processor is connected to the video processor and the video switching IC. It also includes **E17** and **M2** components.
- H-BOARD:** Contains **IC3401 VIDEO SWITCHING** and **IC1101 MICRO PROCESSOR**. The video switching IC is connected to the micro processor and the video processor. It also includes **E15** and **H1** components.
- AV1 and AV2:** These are the external video input ports. AV1 has inputs for Video Out 19, Blue 7, Green 11, Red 15, and Video In 20. AV2 has inputs for Video In 20, AV2 C 15, and Video Out 19.
- CRT:** The Cathode Ray Tube, which displays the video signal.

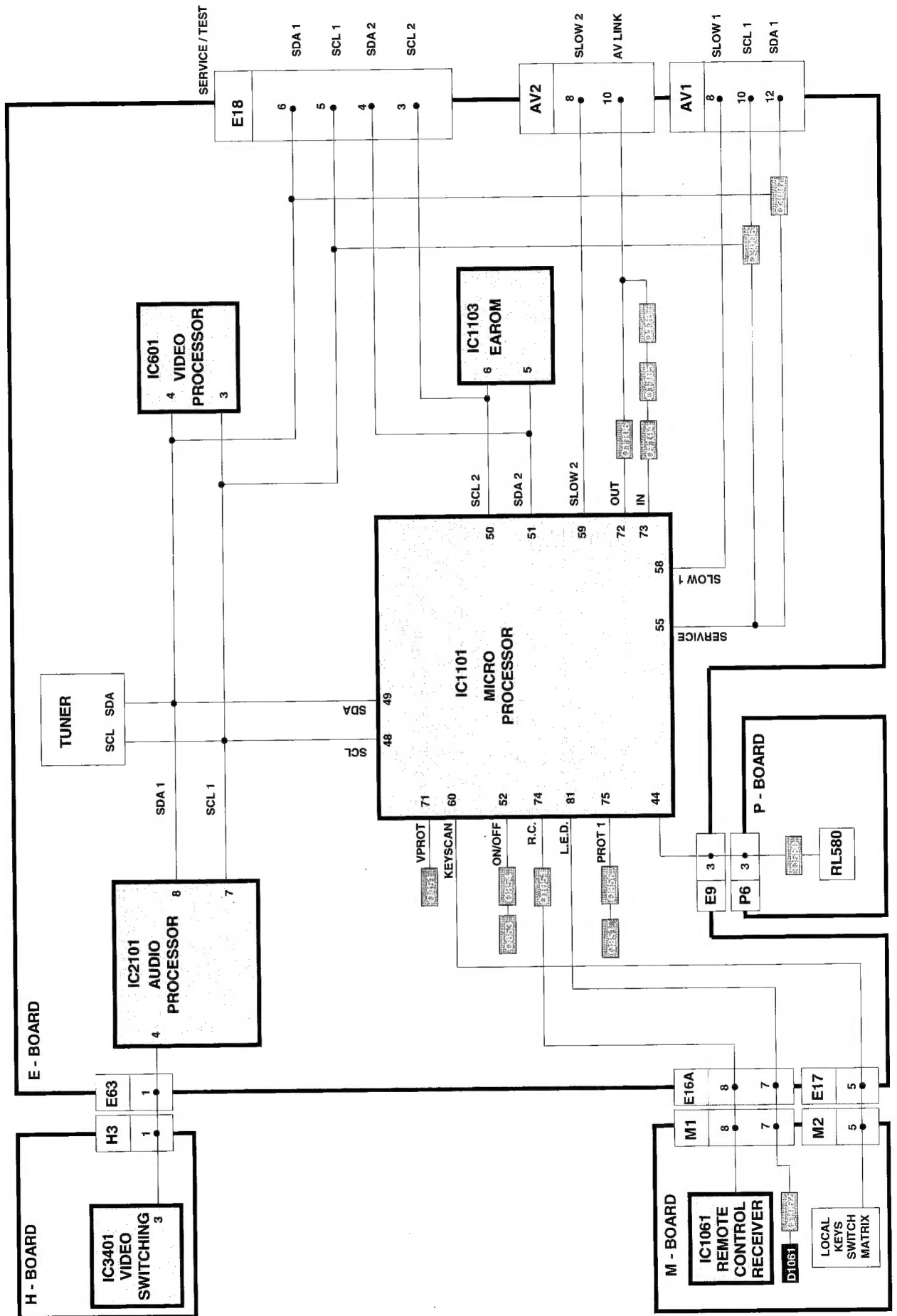
The diagram shows the complex interconnections between these boards, including signal paths for video, control, and power. Key components like the micro processor and video switching ICs are central to the system's operation.



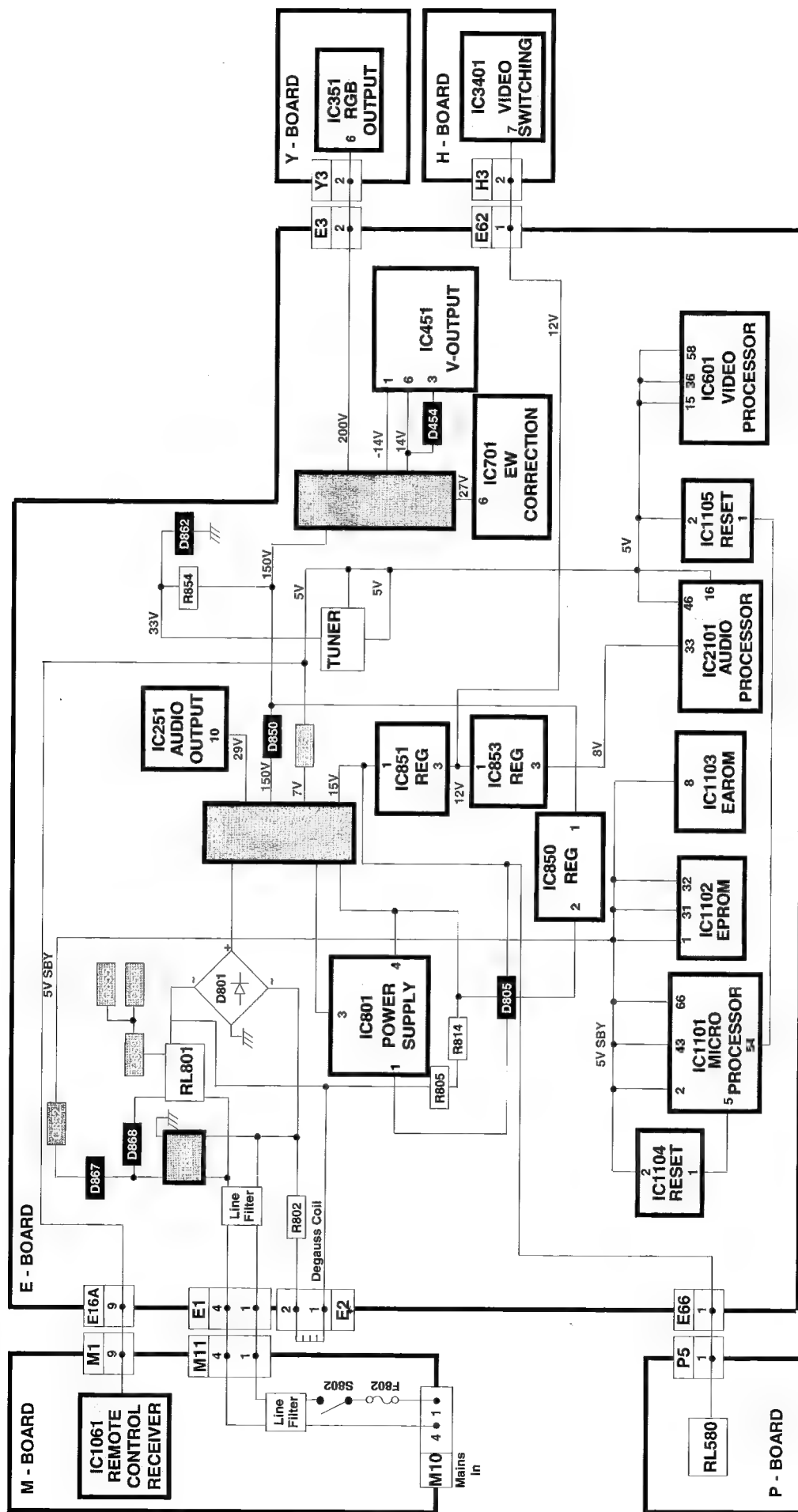
# AUDIO BLOCK DIAGRAM



# CONTROL BLOCK DIAGRAM

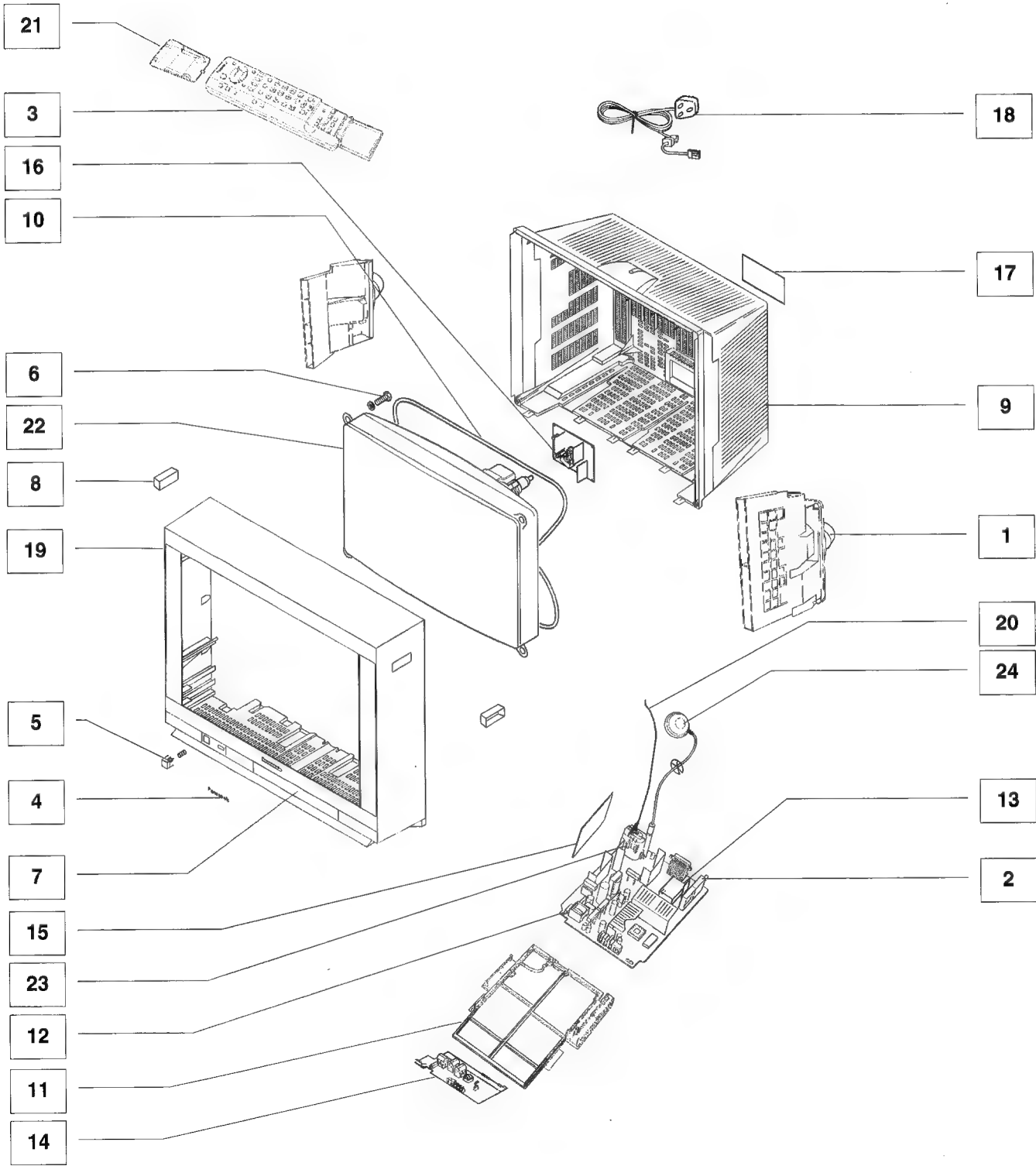


# POWER SUPPLY BLOCK DIAGRAM




# PARTS LOCATION

**NOTE:**  
The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.



# REPLACEMENT PARTS LIST

## Important Safety Notice

Components Identified by  mark have special characteristics important for safety.  
\* When replacing any of these components, use only manufacturers specified parts.  
In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description
<b>MECHANICAL PARTS</b>		
1	EAB12136D2	SPEAKER
2	ENG27506GR	TUNER
3	EUR511210	REMOTE CONTROL
4	TBM8E1928	PANASONIC BADGE
5	TBXA05601	POWER BUTTON
6	THT1065R	CRT FIXING SCREW
7	TKPA10702	LID DOOR
8	TKRA06802	HANDLES
9	TKU8E00590	BACK COVER
10	TLK8E05159	DEGAUSS COIL
11	TMX8E044	CHASSIS FRAME
12	TNP8EE009EQ	E P.C.B.
13	TNP8EH002AB	H P.C.B.
14	TNP8EM023AA	M P.C.B.
15	TNP8EP018AD	P P.C.B.
16	TNP8EY013AB	Y P.C.B.
17	TQF8E3122	MODEL LABEL
18	TSX8E0025	POWER CORD
19	TTYA0410	CABINET
20	TXFLK01CDKG	FOCUS LEAD ASSY
21	UR51EC904A	BATTERY COVER (REMOTE)
22	W56ESF002X03	C.R.T.
23	ZTFL94002A	F.B.T.
24	ZTUZAE550A	ANODE LEAD
<b>MISCELLANEOUS COMPONENTS</b>		
.	0330550049	CRT SOCKET
.	31221212478	FIX CLIP
.	832AG11D-ESL	IC SOCKET
.	PCSZT-084A-1	IC SOCKET
.	TBM8E2020	PRESET LABEL
.	TEK6940	LID CATCH
.	TKPA10501	LED PANEL
.	TMX8E041	PCB BRACKET
.	TPC8E4835	OUTER CARTON
.	TPD8E730	TOP CUSHION
.	TPD8E731	BOTTOM CUSHION
.	TS2800	TV STAND
.	UM-3DJ-2P	BATTERY PACK
R802	232266296706	THERMISTOR
<b>INSTRUCTION BOOKS</b>		
.	TQB8E2946-1	ENGLISH
<b>I.C.s</b>		
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6103Q-N3	R.G.B. OUTPUT
IC451	LA7845N	VERTICAL OUTPUT
IC601	VDP3120BPPC2	VIDEO PROCESSOR
IC701	TEA2031A	E/W CORRECTION
IC801	STRF6654LF57	POWER SUPPLY
IC850	SE140N	ERROR AMPLIFIER
IC851	AN78M12-LB	12V REGULATOR

Cct Ref	Parts Number	Description
IC853	AN78L08TA	8V REGULATOR
IC1061	PNA4601M04TV	LED RECEIVER
IC1101	SDA5450C59	MICRO PROCESSOR
IC1102	27C2001-L14	EPROM *
IC1103	XGL2-02VA	EAROM *
IC1104	MN1381-R(TA)	RESET
IC1105	MN1381-T(TA)	RESET
IC2101	MSP3410DPOC5	AUDIO PROCESSOR
IC3401	TEA2114	VIDEO SWITCHING
<b>FUSES</b>		
F802	19181-3.15	FUSE
F802-1	EYF52BC	FUSE HOLDER
F802-2	EYF52BC	FUSE HOLDER
<b>DIODES</b>		
D101	MA3020TX	DIODE
D102	MA3020TX	DIODE
D251	MA2180BLFS	DIODE
D253	MA700TA5	DIODE
D254	MA700TA5	DIODE
D354	1SR124-4AT82	DIODE
D355	1SR124-4AT82	DIODE
D356	1SR124-4AT82	DIODE
D357	MA165TA5	DIODE
D358	MA165TA5	DIODE
D359	MA165TA5	DIODE
D360	MTZJT-7715A	DIODE
D361	MA165TA5	DIODE
D362	MA165TA5	DIODE
D363	MA165TA5	DIODE
D364	MA165TA5	DIODE
D453	MA165TA5	DIODE
D454	ERA15-02V3	DIODE
D456	MTZJT-775.6C	DIODE
D457	MA165TA5	DIODE
D501	MA165TA5	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047	DIODE
D552	RU3LFA1	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	MA165TA5	DIODE
D557	EU02	DIODE
D558	1SR124-4AT82	DIODE
D580	ERD07-15L7	DIODE
D581	MA165TA5	DIODE
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE

Cct Ref	Parts Number	Description
D616	STZ6.2NT146	DIODE
D618	MTZJT-7710D	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT-775.6C	DIODE
D706	1SS355TE-17	DIODE
D801	RBV4-08	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D807	1SS376TE-17	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	TVSRU2AMLFA5	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1B	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D860	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D864	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D1061	LN81RPHCF3	LED
D1101	MA165TA5	DIODE
D1102	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE

#### TRANSISTORS

Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR
Q302	FMY4T148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4T148	TRANSISTOR

Cct Ref	Parts Number	Description
Q305	BC847B	TRANSISTOR
Q306	FMY4T148	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398-M2	TRANSISTOR
Q551	BU4508AXLB	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q580	BC547B/126	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD2396K-M3	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SD1858TV2	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q950	BC847B	TRANSISTOR
Q951	FMY4T148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR

#### TRANSFORMERS

T501	ETH19Y173AY	TRANSFORMER
T801	ETS39AG1J7AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER

#### COILS

J208	EXCELSA35V	COIL
L101	TLT100K991R	COIL
L102	TLT068K991R	COIL
L104	EXCELSA35T	COIL
L105	TLTACTR47K	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L114	ELJFC2R2KF	COIL
L115	ELJFC2R2KF	COIL

△  
△  
△

Cct Ref	Parts Number	Description
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L580	ELC08D682E	COIL
L581	ELH5L6118	COIL
L582	ELC18B821E	COIL
L583	ELC18B101L	COIL
L584	ELH5L6122	COIL
L585	ELC18B151L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D682E	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39V	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3203	TLT390K991R	COIL
L3204	TLT331K991R	COIL
L3401	ELESN2R2KA	COIL
L3402	ELESN2R2KA	COIL
<b>FILTERS</b>		
L804	ELF19N008A	LINE FILTER
X102	EFCT7004BF	CERAMIC FILTER
<b>CRYSTALS</b>		
X601	4730007267	CRYSTAL
X1101	TSSA121	CRYSTAL
X2101	4730007158	CRYSTAL
<b>RESISTORS</b>		
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA2	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA5	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA8	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Cct Ref	Parts Number	Description
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA21	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA23	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA25	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA29	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA30	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA31	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA32	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA33	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA34	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA35	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA36	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA37	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA38	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA39	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA40	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA43	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA44	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA45	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA46	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA47	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA49	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA50	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA51	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA52	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA53	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA54	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA55	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA56	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA57	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA58	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA59	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA60	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA61	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE49	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSM8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R102	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R103	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R106	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680 Ω
R107	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R108	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R109	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R110	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470 Ω
R111	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Cct Ref	Parts Number	Description			
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R114	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R115	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R251	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33 Ω
R252	ERJ6GEYJ751	S.M.CARB	0.1W	5%	750 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R258	ERJ6GEYJ751	S.M.CARB	0.1W	5%	750 Ω
R259	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω ▲
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R269	ERQ14AJ101	METAL	0.25W	5%	100 Ω ▲
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω ▲
R301	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R303	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R304	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R305	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R307	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R308	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R309	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R310	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R311	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R312	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R357	ERG12DJ104V	METAL	0.5W	5%	100K Ω
R358	ERG12DJ104V	METAL	0.5W	5%	100K Ω
R359	ERG12DJ104V	METAL	0.5W	5%	100K Ω
R363	ERDS1TJ103	CARBON	0.5W	5%	10K Ω
R364	ERDS1TJ103	CARBON	0.5W	5%	10K Ω
R365	ERDS1TJ103	CARBON	0.5W	5%	10K Ω
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R369	ERD25TJ123	CARBON	0.25W	5%	12K Ω
R370	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120 Ω ▲
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω
R374	ERD25TJ274	CARBON	0.25W	5%	270K Ω
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R377	ERQ1ABJP5R6S	METAL	0.5W	5%	5R6 Ω ▲
R378	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R380	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R455	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5 Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R460	ERDS1TJ221	CARBON	0.5W	5%	220 Ω
R461	ERW2PK1R2	WOUND	2W	10%	1R2 Ω ▲
R463	ERD25TJ102	CARBON	0.25W	5%	1K Ω
R464	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω
R465	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω
R506	ERD25TJ560	CARBON	0.25W	5%	56 Ω
R507	ERG1SJ221P	METAL	1W	5%	220 Ω ▲
R509	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R510	ERDS1FJ152	CARBON	0.5W	5%	1K5 Ω ▲
R555	ERQ12HKR33	METAL	0.5W	5%	R33 Ω ▲
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω
R559	ERQ12HKR33	METAL	0.5W	5%	R33 Ω ▲
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω
R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R563	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω
R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K Ω
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R567	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω ▲
R580	ERG1SJ101	METAL	1W	5%	100 Ω
R581	ERG1SJ152	METAL	1W	5%	1K5 Ω
R582	ERG3FJ102H	METAL	3W	5%	1K Ω ▲
R583	ERG1SJ152	METAL	1W	5%	1K5 Ω
R585	ERG3FJ102H	METAL	3W	5%	1K Ω ▲
R586	ERD25TJ682	CARBON	0.25W	5%	6K8 Ω
R587	ERDS2TJ472T	CARBON	0.25W	5%	4K7 Ω
R588	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω
R589	ERDS1TJ680	CARBON	0.5W	5%	68 Ω
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R603	ERJ6GEYJ103	S.M.CARB	0.125W	5%	10K Ω
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R605	ERD25TJ331	CARBON	0.25W	5%	330 Ω
R606	ERD25TJ331	CARBON	0.25W	5%	330 Ω
R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R615	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R616	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R648	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω
R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω



Cct Ref	Parts Number	Description			
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100 Ω ▲
R702	ERQ12HJ8R2	FUSIBLE	0.5W	5%	8R2 Ω ▲
R703	ERG2FJ821	METAL	2W	5%	820 Ω ▲
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R711	ERG1SJ101	METAL	1W	5%	100 Ω
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω
R810	ERW2PKR27	WOUND	2W	10%	R27 Ω ▲
R811	ERW2PKR33	WOUND	2W	20%	R33 Ω ▲
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω ▲
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω ▲
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R854	ERG2FJ223	METAL	2W	5%	22K Ω ▲
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R856	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω ▲
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω
R862	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω
R864	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R872	ERG1SJ183	METAL	1W	5%	18K Ω
R873	ERG1SJ223	METAL	1W	5%	22K Ω
R874	ERJ6GEYJ204	S.M.CARB	0.1W	5%	200K Ω
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R877	ERW2PKR56	WOUND	2W	10%	R56 Ω ▲
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω

Cct Ref	Parts Number	Description			
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1142	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1154	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1155	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1180	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1190	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description			
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K $\Omega$
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 $\Omega$
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 $\Omega$
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 $\Omega$
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 $\Omega$
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2118	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 $\Omega$
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 $\Omega$
R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K $\Omega$
R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K $\Omega$
R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K $\Omega$
R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K $\Omega$
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3009	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3010	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3011	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3012	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 $\Omega$
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3022	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3023	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K $\Omega$
R3024	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 $\Omega$
R3025	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3026	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3044	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K $\Omega$
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K $\Omega$
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3202	ERDS1TJ151	CARBON	0.5W	5%	150 $\Omega$
R3203	ERDS1TJ151	CARBON	0.5W	5%	150 $\Omega$
R3204	ERG2FJ221	METAL	2W	5%	220 $\Omega$ $\Delta$
R3205	ERG2FJ221	METAL	2W	5%	220 $\Omega$ $\Delta$
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K $\Omega$
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$

Cct Ref	Parts Number	Description			
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K $\Omega$
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K $\Omega$
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K $\Omega$
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K $\Omega$
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K $\Omega$
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K $\Omega$
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K $\Omega$
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K $\Omega$
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K $\Omega$
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 $\Omega$
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 $\Omega$
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 $\Omega$
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3402	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3403	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3404	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 $\Omega$
R3405	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K $\Omega$
R3406	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300 $\Omega$
R3407	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K $\Omega$
R3408	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 $\Omega$
R3409	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 $\Omega$
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 $\Omega$
R3607	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 $\Omega$
R3608	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 $\Omega$
R3609	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 $\Omega$
R3610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K $\Omega$
R3613	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 $\Omega$
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 $\Omega$

#### CAPACITORS

Cct Ref	Parts Number	Description			
C101	ECJ2VB1C104K	ELECT	350V		100nF
C102	ECJ2VF1H103Z	ELECT	350V		10nF
C103	ECJ2VF1H104Z	ELECT	350V		100nF
C105	ECUV1H560JCX	S.M. CAP	50V		56pF
C106	ECUV1H560JCX	S.M. CAP	50V		56pF
C107	ECJ2VF1H104Z	ELECT	350V		100nF
C108	ECEA1CU100	ELECT	16V		10 $\mu$ F
C109	ECUV1H102JCX	S.M. CAP	50V		1nF
C110	ECJ2VF1H103Z	ELECT	350V		10nF
C111	ECA1HMR33GB	ELECT	50V		0.33 $\mu$ F
C114	ECJ2VF1H104Z	ELECT	350V		100nF
C115	ECUV1H103ZFX	S.M. CAP	50V		10nF
C116	ECA1CM221GB	ELECT	16V		220 $\mu$ F
C117	ECJ2VF1H103Z	ELECT	350V		10nF
C118	ECJ2VF1H104Z	ELECT	350V		100nF
C119	ECA1CM221GB	ELECT	16V		220 $\mu$ F
C120	ECA1CM221GB	ELECT	16V		220 $\mu$ F
C121	ECUV1H561KBX	S.M. CAP	50V		560pF
C124	ECUV1H220JCX	S.M. CAP	50V		22pF
C125	ECUV1H100DCX	S.M. CAP	50V		10pF
C133	ECUV1H104KBX	S.M. CAP	50V		100nF
C134	ECUV1H104KBX	S.M. CAP	50V		100nF
C135	ECUV1H104KBW	S.M. CAP	50V		100nF
C136	ECUV1H104KBX	S.M. CAP	50V		100nF
C138	ECUV1H104KBX	S.M. CAP	50V		100nF
C251	ECA1HM330B	ELECT	50V		33 $\mu$ F
C252	ECJ2VB1H223K	ELECT	350V		22nF
C253	ECA1HM4R7GB	ELECT	50V		4.7 $\mu$ F

Cct Ref	Parts Number	Description		
C254	ECQM1H154J	FILM	50V	150nF
C255	ECA1EM101GB	ELECT	25V	100μF
C256	ECJ2VB1H223K	ELECT	350V	22nF
C257	ECA1HM4R7GB	ELECT	50V	4.7μF
C258	ECA1HM330B	ELECT	50V	33μF
C259	ECQM1H154J	FILM	50V	150nF
C260	ECA1VM102GB	ELECT	35V	1nF
C261	ECA1VM102GB	ELECT	35V	1nF
C262	ECQM1H684J	FILM	50V	680nF
C263	ECA1HM010GB	ELECT	50V	1μF
C264	ECA1HHG222E	ELECT	50V	2200μF
C265	ECQM1H684J	FILM	50V	680nF
C266	ECA1HM010GB	ELECT	50V	1μF
C267	ECJ2VB1H104K	ELECT	350V	100nF
C268	ECJ2VB1H104K	ELECT	350V	100nF
C270	ECJ2VB1H104K	ELECT	350V	100nF
C301	ECJ2VB1C104K	ELECT	350V	100nF
C302	ECJ2VB1C104K	ELECT	350V	100nF
C303	ECJ2VB1C104K	ELECT	350V	100nF
C304	ECA1CM100GB	ELECT	16V	10μF
C351	ECUV1H090DCN	S.M. CAP	50V	90pF
C352	ECUV1H090DCN	S.M. CAP	50V	90pF
C353	ECUV1H090DCN	S.M. CAP	50V	90pF
C354	ECQM2104KZ	FILM	250V	100nF
C355	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C356	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C357	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C358	ECQM1H224J	FILM	50V	220nF
C360	ECKC3D152J	CERAMIC	2KV	1.5nF
C361	ECA1HMR47GB	ELECT	50V	0.47μF
C363	ECA1VM471GB	ELECT	35V	470μF
C364	ECJ2VF1H103Z	ELECT	350V	10nF
C365	ECA1CM100GB	ELECT	16V	10μF
C451	ECUV1H102JX	S.M. CAP	50V	1nF
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C454	ECUV1H223KBM	S.M. CAP	50V	22nF
C455	ECA1HM100GB	ELECT	50V	10μF
C456	ECA1HHG221B	ELECT	50V	220μF
C458	ECQB1222JF3	FILM	100V	2.2nF
C459	222236516154	FILM	160V	150nF
C461	ECCR2H270J	CERAMIC	500V	27pF
C508	ECQV1H105JZ	FILM	50V	1μF
C509	ECA1VM470B	ELECT	35V	47μF
C510	ECUV1H104KBX	S.M. CAP	50V	100nF
C551	ECKC3D222JB	CERAMIC	2KV	2200pF
C552	ECWH15H102JN	FILM	1500V	1nF
C556	ECQM4333JC	FILM	400V	33nF
C557	ECKC2H471J	CERAMIC	500V	470pF
C558	ECA1HHG471E	ELECT	50V	470μF
C561	ECA1EHG102B	ELECT	25V	1000μF
C562	ECKC2H101J	CERAMIC	500V	100pF
C563	ECA2EHG220B	ELECT	250V	20μF
C564	ECEA2AN2R2SB	ELECT	100V	2.2μF
C565	ECQP1H273J	FILM	100V	2700μF
C566	ECKC2H471J	CERAMIC	500V	470pF
C567	ECA1EHG102B	ELECT	25V	1000μF
C568	ECKC2H471J	CERAMIC	500V	470pF
C569	ECKC2H102J	CERAMIC	500V	1nF
C580	ECA2GHG2R2B	ELECT	400V	1nF
C581	ECWF4824JBB	FILM	400V	820nF
C582	ECWF2H474J	FILM	500V	470nF
C584	ECWH15H103JN	FILM	1500V	10nF
C585	ECQB1H103J	FILM	50V	10nF
C586	ECWF2H224J	FILM	500V	220nF
C601	ECUV1H104KBX	S.M. CAP	50V	100nF
C602	ECA1HM101GB	ELECT	50V	100μF

Cct Ref	Parts Number	Description		
C603	ECUV1H102JCX	S.M. CAP	50V	1nF
C604	ECJ2VF1H223Z	ELECT	350V	22nF
C605	ECA1HM101GB	ELECT	50V	100μF
C606	ECA1HM3R3GB	ELECT	50V	3.3μF
C607	ECJ2VF1H104Z	ELECT	350V	100nF
C608	ECUV1H153KBX	S.M. CAP	50V	15nF
C609	ECUV1H153KBX	S.M. CAP	50V	15nF
C610	ECUV1H153KBX	S.M. CAP	50V	15nF
C611	ECUV1H153KBX	S.M. CAP	50V	15nF
C612	ECUV1H153KBX	S.M. CAP	50V	15nF
C613	ECUV1H153KBX	S.M. CAP	50V	15nF
C614	ECUV1H050CCX	S.M. CAP	50V	50pF
C615	ECUV1H050CCX	S.M. CAP	50V	50pF
C616	ECA1HM101GB	ELECT	50V	100μF
C617	ECUV1H223KBX	S.M. CAP	50V	22nF
C618	ECA1CM221GB	ELECT	16V	220μF
C619	ECJ2VB1H473K	ELECT	350V	47nF
C620	ECA1HM101GB	ELECT	50V	100μF
C621	ECJ2VB1C104K	ELECT	350V	100nF
C622	ECUV1H683KBX	S.M. CAP	50V	68nF
C623	ECUV1H102JCX	S.M. CAP	50V	1nF
C624	ECJ3VB1C474K	ELECT	3.5KV	470nF
C625	ECJ3VB1C474K	ELECT	3.5KV	470nF
C626	ECJ3VB1C474K	ELECT	3.5KV	470nF
C627	ECJ3VB1C474K	ELECT	3.5KV	470nF
C628	ECA1CM100GB	ELECT	16V	10μF
C629	ECUV1H104KBX	S.M. CAP	50V	100nF
C630	ECUV1H100DCX	S.M. CAP	50V	10pF
C631	ECUV1H683ZFX	S.M. CAP	50V	68nF
C633	ECUV1H271JCX	S.M. CAP	50V	270pF
C634	ECUV1H271JCX	S.M. CAP	50V	270pF
C635	ECUV1H180JCX	S.M. CAP	50V	18pF
C636	ECUV1H271JCX	S.M. CAP	50V	270pF
C637	ECUV1H101JCX	S.M. CAP	50V	100pF
C638	ECUV1H471JCX	S.M. CAP	50V	470pF
C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF
C640	ECKC2H391J	CERAMIC	500V	390pF
C701	ECA1HHG101B	ELECT	50V	100μF
C702	ECUV1H103KBX	S.M. CAP	50V	10nF
C703	ECEA1HGE100	ELECT	50V	10μF
C704	ECQB1H223K	FILM	50V	22nF
C705	ECQB1H222J	FILM	50V	2.2nF
C804	222233510224	FILM	250V	220nF
C805	ECA0JHG102B	ELECT	6.3V	1nF
C806	ECKWNA101MBC	CERAMIC	400V	100μF
C807	ECKC2H472J	CERAMIC	500V	4.7nF
C808	ECKC2H472J	CERAMIC	500V	4.7nF
C809	ECKC2H472J	CERAMIC	500V	4.7nF
C810	ECKC2H472J	CERAMIC	500V	4.7nF
C811	43504A9187M0	ELECT	400V	180μF
C814	ECKC3D102J	CERAMIC	2KV	1nF
C815	ECKC1H471J	CERAMIC	50V	470pF
C816	EEUFC1E820B	CERAMIC	25V	82pF
C817	ECQE6104K	FILM	600V	100nF
C818	ECKWNA332MEC	CERAMIC	250V	3.3nF
C819	ECQB1H152K	FILM	50V	1.5nF
C850	ECKC3D471JB	CERAMIC	2KV	470pF
C851	ECA2CM221E	ELECT	160V	220μF
C852	ECA2CHG101E	ELECT	160V	100μF
C853	ECKC2H471J	CERAMIC	500V	470pF
C854	ECA1EM102GB	ELECT	25V	100μF
C855	ECKC2H471J	CERAMIC	500V	470pF
C856	ECA1AHG222B	ELECT	10V	2200μF
C857	ECKC2H471J	CERAMIC	500V	470pF
C858	ECEA1HGE102	ELECT	50V	1000μF
C859	ECJ2VF1H104Z	ELECT	350V	100nF

Cct Ref	Parts Number	Description		
C860	ECA1HM101GB	ELECT	50V	100µF
C862	ECJ2VF1H104Z	ELECT	350V	100nF
C863	ECA1HM101GB	ELECT	50V	100µF
C864	ECJ2VF1H104Z	ELECT	350V	100nF
C865	ECA1CM100GB	ELECT	16V	10µF
C866	ECJ2VF1H104Z	ELECT	350V	100nF
C867	ECA1CM100GB	ELECT	16V	10µF
C868	ECA1CM100GB	ELECT	16V	10µF
C869	ECA1EM101GB	ELECT	25V	100µF
C870	ECA1EM471GB	ELECT	25V	470µF
C871	ECA1CM102B	ELECT	16V	1000µF
C872	ECA1CM471GB	ELECT	16V	470µF
C873	ECA1CM100GB	ELECT	16V	10µF
C875	ECA2CM220B	ELECT	160V	22µF
C876	ECA1HHG101B	ELECT	50V	100µF
C950	ECJ2VB1C104K	ELECT	350V	100nF
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF
C1062	ECEA1HU101	ELECT	50V	100µF
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF
C1101	ECJ2VF1H104Z	ELECT	350V	100nF
C1102	ECA0JM101G	ELECT	6.3V	100µF
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF
C1106	ECKC2H681J	CERAMIC	500V	680pF
C1108	ECJ2VB1H333K	ELECT	350V	33nF
C1111	ECA1CM100GB	ELECT	16V	10µF
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF
C1117	ECJ2VF1H104Z	ELECT	350V	100nF
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF
C1120	ECJ2VF1H104Z	ELECT	350V	100nF
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF
C1130	ECA1CM221GB	ELECT	16V	220µF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECA1CM100GB	ELECT	16V	10µF
C2112	ECA1CM100GB	ELECT	16V	10µF
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100GB	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF

Cct Ref	Parts Number	Description		
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1000µF
C2130	ECA1CM331B	ELECT	16V	330µF
C2131	ECJ2VF1H103Z	ELECT	350V	10nF
C2132	ECJ2VF1H103Z	ELECT	350V	10nF
C2134	ECJ2VF1H103Z	ELECT	350V	10nF
C2135	ECA1HM101GB	ELECT	50V	100µF
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECA1CM100GB	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECA1HM101GB	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470GB	ELECT	16V	47µF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470GB	ELECT	16V	47µF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3029	ECA1HM101GB	ELECT	50V	100µF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF
C3101	ECUV1H104KBX	S.M. CAP	50V	100nF
C3102	ECUV1E104KBX	S.M. CAP	25V	100nF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF




# SCHEMATIC DIAGRAMS FOR MODEL

## TX-24DX1

### (EURO-4 CHASSIS)

#### IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

#### NOTE

1. RESISTOR

All resistors are carbon ¼W resistor, unless marked otherwise.  
Unit of resistance is OHM ( $\Omega$ ) (k=1,000, M=1,000,000)


2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise.  
Unit of capacitance is  $\mu$ F unless otherwise stated.

3. COIL

Unit of inductance is  $\mu$ H, unless otherwise stated.

4. TEST POINT

 Test Point Position

5. EARTH SYMBOL


 Chassis Earth (Cold)


 Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.  
Measurement conditions are as follows:  
Power source                      a.c. 220V-240V, 50Hz  
Receiving Signal                  Colour Bar signal (RF)  
All customer controls          Maximum position

7.

 Indicates the Video signal path

 Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

#### REMARKS

- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

#### NOTE

- The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

